

METHOD OF MAKING ULTRASOUND TRANSDUCER OR ACTUATOR

ABSTRACT OF THE DISCLOSURE

Method of making a gas matrix composite ultrasound transducer comprises aligning piezoelectric rods or fibers substantially parallel to each other on an adhesive side of a plurality of curable adhesive-faced sheets, stacking the sheets so as to maintain the gaps between the rods or fibers, curing the adhesive, cutting the cured structure perpendicular to the rods or fibers into narrow slices, and applying a conductive layer to each cut face to form electrical contacts with both ends of the rods or fibers.